

## CLAIMS

What is claimed is:

1. A method for producing moisture-permeable waterproof fabric comprising
  - (a) selecting polyester filament yarn with which filament size is 0.2 ~ 0.8 dpf and with which cross section is at least formed with three grooves as raw material,;
  - (b) producing high density fabric by the selected filament yarn; then
  - (c) by scouring, dyeing, water repellent and press finish process to form a moisture-permeable waterproof fabric with hydrostatic pressure resistance higher than 700 mm H<sub>2</sub>O.
2. The method for producing moisture-permeable waterproof fabric as defined in claim 1, wherein the cross section of the selected filament yarn is arranged as distinctive shape at different section of the filament.
3. The method for producing moisture-permeable waterproof fabric as defined in claim 1, wherein the cross section of the selected filament yarn is formed as Y-shaped, cross-shaped or W-shaped cross section.
4. The method for producing moisture-permeable waterproof fabric as defined in claim 2, wherein the cross section at different section of the selected filament yarn is formed as Y-shaped, cross-shaped or W-shaped cross section.
5. The method for producing moisture-permeable waterproof fabric as defined in claim 1, wherein the selected filament yarn includes filament and draw textured yarn.
6. The method for producing moisture-permeable waterproof fabric as defined in claim 2, wherein the selected filament yarn includes filament and draw textured yarn.
7. The method for producing moisture-permeable waterproof fabric as defined in claim 1, wherein the fabric produced includes the selected filament yarn used as warp yarn or weft yarn or used as warp yarn and weft yarn more than 30%.
8. The method for producing moisture-permeable waterproof fabric as defined in claim 2, wherein the fabric produced includes the selected filament yarn used as warp yarn or weft yarn or used as warp yarn and weft yarn more than 30%.
9. A moisture-permeable waterproof fabric has the physical property of hydrostatic pressure resistance higher than 700 mm H<sub>2</sub>O, and comprises more than 30% a kind of polymer filament yarn, as warp yarn or weft yarn or used as warp yarn and weft yarn, with which filament size is 0.2 ~ 0.8 dpf and with which cross section is at least formed with three grooves including formed as Y-shaped, cross-shaped or W-shaped.
10. The moisture-permeable waterproof fabric as defined in claim 9, wherein the cross section of the filament yarn is further arranged as distinctive shape at different section of the filament.